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By: Wm M. Pm

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DOCKET No.: 5525-0015.20

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Stephen C. Macevicz

EXAMINER: E. Whisenant

SERIAL No.: 08/872,446

ART UNIT: 1634

FILED: June 10, 1997

FOR: **DNA Sequencing by Parallel
Oligonucleotide Extensions**

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AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office action mailed August 3, 1998,
please amend the application as follows.

In the Specification

On page 4, line 32, insert the following text:

--The invention also includes an oligonucleotide probe of
the formula: HO-(3') (B)j(5')-OP(=O) (O-)NH-(B)k-Bt*
wherein B is a nucleotide or an analog thereof; j is in the range
of from 1 to 12; k is in the range of from 0 to 12, such that the
sum of j and k is less than or equal to 12; and Bt* is a labeled,
non-extendable chain-terminating moiety.

In another aspect, the invention includes an oligonucleotide
selected from OP(=O) (O-)O-(5') (B)sRRRR(B)wBt* and
OP(=O) (O-)O-(5') (B)sRRRR(B)w(3')OP(=O) (O-)O, wherein B is a
deoxyribonucleotide or an analog thereof; R is a ribonucleotide;
s is in the range of from 1 to 8; w is in the range of from 0 to
8, such that the sum of s and w is less than or equal to 8; and
Bt* is a labeled, non-extendable chain-terminating moiety.--